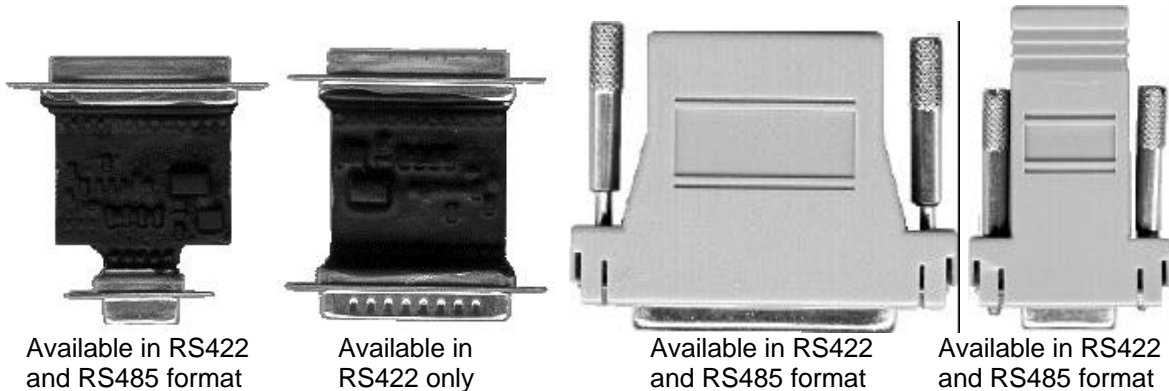


# RS232C to RS422/485 CONVERTER



## FEATURES

- Up to 115K Baud data rates!
- Tested at 115K Baud to 1000 feet with error free operation using level 5, twisted pair, network cable, without line terminators.
- No delayed turn-a-round time! The RS485 operates up to 115K Baud with no delays.
- Self-powered from the RS232C PC comm port. Requires the DTR or RTS line to be set high for operation

## RS422 CONFIGURATION

- The input connection is pre-wired to take its power from the PC's DTR or RTS connection and to provide feedback to the other input connections to indicate that the device is on-line. The RS422 4-wire output is connected to the DB25 or RJ45 connector. RTS and CTS signals are passed through to the RJ45 connector to allow RS232 hardware flow control. Systems using hardware flow control will need the GND connection for the RS232 signaling.

## RS485 CONFIGURATION

- The input connection is pre-wired to take its power from the PC's DTR or RTS connection and to provide feedback to the other input connections to indicate that the device is on-line. The RS485 2-wire output is connected to the DB25 or RJ45 connector. The design of units **A, B, E and F** block the PC's comm port from receiving its own data transmission, simplifying the conversion of duplex to simplex signaling. Units **C, D, G and H** do not block the PC from receiving its own data transmission, allowing data collision to be detected. All units default to the receiving (listening) mode and there is no TX to RX delay requirement for data transmission. RTS and CTS signals are passed through to the RJ45 connector to allow RS232 hardware flow control. Systems using hardware flow control will need the GND connection for the RS232 signaling.

## Coyote Kit for SII

- The Coyote Kit consists of a RS422-B unit with board level modifications to the RS422 connections (Txa-18, Txb-19, Rxa-23, Rxb-24), a bracket assembly and the IDC extension cable. This allows the RS422 card to be mounted inside the PC and a direct connection to the existing RS422 cable.

## Warranty

MicroLee Technology Inc. warrants the products sold to be free of defects in materials and workmanship for a period of 30 days from the date of purchase. In the event of such a defect, MicroLee Technology Inc. will replace the defective material. MicroLee Technology Inc. will not replace any defective product if the defect was deemed to be caused by the inability of the user to properly install or build the product. THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES EXPRESSED, IMPLIED OR STATUTORY, INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. MICROLEE TECHNOLOGY INC. SPECIFICALLY DENIES ANY IMPLIED OR EXPRESSED REPRESENTATION THAT THE PRODUCT WILL MEET YOUR REQUIREMENTS OR OPERATE ERROR FREE.

## Limitation of Liability

IN NO EVENT SHALL MICROLEE TECHNOLOGY INC. BE LIABLE FOR ANY DAMAGES WHATSOEVER INCLUDING DIRECT, INDIRECT, INCIDENTAL, CONSEQUENTIAL, LOSS OF BUSINESS PROFITS OR SPECIAL DAMAGES, EVEN IF MICROLEE TECHNOLOGY INC. HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

The sale of this product shall be governed by the laws of the Province of Ontario.

Pin Assignments for RS232C to RJ45									
RS485		<<RS232C>>						RS422	
		DB9F			DB25F				
RTS	1		2	TX OUT		3		1	RTS
CTS	2		3	RX IN		2		2	CTS
TXa/RXa	3		1,4,6	+DTR		6,8,20		3	TXa
TXb/RXb	4		7,8,9	+RTS		4,5,22		4	TXb
			5	GND		7		5	RXa
								6	RXb
GND	7							7	GND
Shield	8							8	Shield

Pin Assignments for RS232C to DB Connectors											
RS485			<<RS232C>>						RS422		
			DB9F			DB25F					
	25F	25M							25M	25F	
T/RXa	2,12	2,12	2	TX OUT		3		2,5	9,12	TXa	
T/RXb	3,11	3,11	3	RX IN		2		4,14	10,25	TXb	
			1,4,6	+DTR		6,8,20		3,21	11,18	RXa	
VCC	17	22	7,8,9	+RTS		4,5,22		15,20	19,24	RXb	
GND	7	7	5	GND		7		7	7	GND	

Typical output connections						
Unit A	RS422	Unit B		Unit A	RS485	Unit B
TXa	>>	RXa		TXa/RXa	<< >>	TXa/RXa
TXb	>>	RXb		TXb/RXb	<< >>	TXb/RXb
RXa	<<	TXa				
RXb	<<	TXb				

Send orders to:  
 MicroLee Technology Inc.  
 28 Marlana Dr.  
 Scarborough, Ontario, M1E 2Z1  
 Canada

Payment by certified cheque or money order in \$US funds. International orders must use US international money orders. Canadian orders can be in Canadian or US funds.

Make cheque payable to: **MicroLee Technology Inc.**

**RS422/485 ORDER FORM (minimum order 5 units)**

Please print clearly.

Sold to: \_\_\_\_\_ Ship to: \_\_\_\_\_

Address: \_\_\_\_\_

City \_\_\_\_\_

Prov/State: \_\_\_\_\_ Prov/State: \_\_\_\_\_

Postal Code: \_\_\_\_\_ Postal Code: \_\_\_\_\_

Country: \_\_\_\_\_ Country: \_\_\_\_\_

Phone no.: \_\_\_\_\_ for shipping in case of problem with local carrier.

email address: \_\_\_\_\_ Date of order: \_\_\_\_\_

Quantity Ordered	Board type	Unit cost	Extended cost
	RS422 - A DB9F to DB25M	\$25.00US/25.00CD	
	RS422 - B DB9F to DB25F	\$25.00US/25.00CD	
	RS422 - C DB25F to DB25M	\$25.00US/25.00CD	
	RS422 - D DB25F to DB25F	\$25.00US/25.00CD	
	RS422 - E DB9F to RJ45	\$30.00US/30.00CD	
	RS422 - F DB25F to RJ45	\$30.00US/30.00CD	
	RS485 - A DB9F to DB25M	\$25.00US/25.00CD	
	RS485 - B DB9F to DB25F	\$25.00US/25.00CD	
	RS485 - C DB9F to DB25M	\$25.00US/25.00CD	
	RS485 - D DB9F to DB25F	\$25.00US/25.00CD	
	RS485 - E DB9F to RJ45	\$30.00US/30.00CD	
	RS485 - F DB25F to RJ45	\$30.00US/30.00CD	
	RS485 - G DB9F to RJ45	\$30.00US/30.00CD	
	RS485 - H DB25F to RJ45	\$30.00US/30.00CD	
	Optional PC bracket mounted	\$2.00US/3.00CD	
	IDC DB9F to DB9M cable 16"	\$10.00US/10.00CD	
	Coyote Kit for SII upgrade (min order 25 units)	\$43.00US/43.00CD	

SUBTOTAL

Shipments  
 USA \$9.00US up to 5 pieces SHIPPING

CANADIAN \$8.00CD up to 10 pieces  
 International \$12.00US up to 5 pieces

Canadian shipments add 6%GST GST

Ontario shipments add 8%PST PST

TOTAL

Pricing effective Nov 12, 2007